

# Walid Belfatmi

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## Experience

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### Research Assistant

Mar 2025 – Present

Oracle

- Collaborated with NetSuite Data Connect team
- Contributed to developing a notification system for the data connect service

### Software Engineer Intern

Apr 2023 – Jul 2023

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- Developed a responsive portfolio website to showcase the company's services
- Contributed to developing the company's main web application

## Education

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### 1337 Coding School

2023 – present

Computer Science

### ENCG Settat

2019 – 2023

BBA Finance and Accounting

## Projects

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### Transcendence

[code](#) [live](#)

- Built a real-time multiplayer gaming platform using React, Django, WebSockets, and PostgreSQL
- Implemented secure user authentication, matchmaking, and social features like friend lists and chat
- Designed responsive, mobile-friendly UI using Tailwind CSS and custom React hooks
- Developed and consumed RESTful APIs and WebSocket endpoints for real-time communication

### Pawtograph

[code](#) [live](#)

- Created a social media app for pet owners. Users can create accounts for their pets, sharing their photos and moments with other pet owners
- integrated real-time notifications and messaging features through Pusher

### ReDIYs

[code](#)

- Built a full Redis clone in C++ from scratch, implementing the RESP protocol and core Redis commands
- Supported concurrent clients using poll(), with pipelining, partial reads, and expiration logic
- Implemented advanced features like RDB parsing, replication, streams, transactions, and Pub/Sub
- Designed for compatibility with real Redis clients, with no external dependencies

### Webserv

[code](#)

- An HTTP server built from scratch in C++98, designed to function similarly to Nginx
- Served multiple clients concurrently using IO multiplexing (handled more than 1000 concurrent users)
- Handled GET, POST and DELETE methods, with Cookies and Session management
- Built a configuration parser similar to Nginx
- Added CGI support for script execution

## Technologies

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**Languages:** HTML, CSS, JavaScript, Typescript, Python, C++, C, Java, SQL

**Technologies:** React.js, Spring, Node.js, MongoDB, PostgreSQL, Git, Docker

**Soft Skills:** Leadership, Autonomy, Collaboration, Communication, Problem solving, Teamwork, Fast Learning